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1. DHP14-009: Technologies That Reconstruct or Regenerate Vascular Tissue in the Extremities After Traumatic Injury

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this effort is to develop a new innovative technology that may include the use of novel biomaterials, nanotopologies, cellular/tissue-based strategies or biologics, to reconstruct and regenerate vascular tissue in the extremities after traumatic injury. DESCRIPTION: Blood vessel trauma leading to hemorrhage or ischemia is a significant cause of morbidity and mortali ...

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2. DHP14-010: Upper Limb Assistive and Rehabilitation Orthotic Device

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: To develop a rehabilitation and assistive technology that enhances and/or returns upper limb motor function losses due to traumatic combat injuries. Develop a portable and easy to use hand worn assistive device that is applicable in daily life and outdoor activities. The device should have biomimetic motion application and structural similarity to biological hand. The device should al ...

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3. DHP14-011: Technologies to Train Myoelectric Prosthesis Users for Optimal Functional Outcomes

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective of this effort is to develop a new tool or technology that can optimize training outcomes for myoelectric prostheses. DESCRIPTION: Myoelectric prostheses monitor electrical signals generated by a patient"s muscle contractions and use those signals to control prosthetic joint movements. Successful use of myoelectric prostheses is dependent on providing patients with high ...

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4. DHP13-001: Humeral Head Intraosseous Training System

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop a simulation-based training system to assist teaching and training the use of intraosseous (IO) devices in the humeral head to administer fluid to patients at point of injury. DESCRIPTION: Over the past few years, the British Medical Emergency Response Team (MERT) and US Air Force Search and Rescue Unit (aka, PEDRO) have been administering fluids to patients at point o ...

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5. DHP13-002: Automated Non-Invasive Cognitive Load Assessment for Medical Training Effectiveness and Safety

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Effective team performance is critical during medical emergencies and combat trauma situations. The goal is to make medical team training exercises more useful to participants and more readily interpretable by instructors. The desired result is improved capability to measure -- automatically & noninvasively -- team performance, team dynamics, individual performance, individual cognitiv ...

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6. DHP13-003: Long-lasting Disposable Insecticidal / Repellent Fabric Barrier for Personal or Area Protection Against Biting Arthropods

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop fabric barrier with long-lasting repellent and/or insecticide for protecting deployed personnel against biting arthropods, for military use. Product must have potential for EPA registration and use compounds with low mammalian toxicity. DESCRIPTION: Protection of deployed ground forces from disease-carrying insects requires the immediate and safe use of insecticides, repell ...

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7. DHP13-004: Militarized Formulation and EPA Registerable Attractive Targeted Sugar Bait for Insect Vector Control

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Develop sugar-based vector control bait product, formulated and packaged for military use, with potential for EPA registration. Product must use insecticides effective for killing target vectors, but have low mammalian toxicity and minimal impacts on non-targets. DESCRIPTION: Protection of deployed ground forces from disease-carrying insects requires the immediate and safe use of ...

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8. DHP13-005: Rapid ID of Microbial Pathogens From Food, Water and Environmental Samples

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop a field-ready kit for the rapid (max 8 hours) identification, quantification, and viability of microbial pathogens (bacterial, viral, and eukaryotic) from food matrices, water, and environmental samples. Direct or indirect detection of biological toxins is also desired. A developed kit will emphasize ease of use by technicians who are relatively lab-inexperienced, and an a ...

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9. DHP13-006: Sporozoite Vaccine Administration Method

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: To develop an innovative method for administering a malaria sporozoite vaccine that provides efficient access by the sporozoites to the intravascular space, thereby mimicking direct intravenous (IV) delivery. This innovative method should contrast with traditional intramuscular (IM), subcutaneous (SC) or intradermal (ID) methods delivering sporozoites primarily to the interstitial spac ...

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10. DHP13-007: Development of a Vector Arthropod (Tick and Flea) Pitfall or Sticky Trap with CO2 Attractant

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: The development of a tick and flea sticky or pitfall style trap to be used for field surveillance which employs a deployment sound source of CO2. DESCRIPTION: Current methods for trapping ticks and fleas by DoD personnel are not as effective as should be given the peer reviewed literature which documents what serves to attract and trap off-host tick and flea species known to carry ...

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